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United States Department of Agriculture

Soil Conservation Service

Boise Idaho



WATER SUPPLY OUTLOOK FOR IDAHO

in Cooperation with Idaho State Department of Natural Resources, Idaho Soil Conservation Districts, and NOAA, National Weather Service



TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Up to 75 percent of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data effecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent as surveyed and marked locations in mountain areas. These measurements are repeated in the same location near the same dates each year. Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Snotel (snow telemetry) networks of automatic snow water equivalent and related data sensing devices, are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. A joint Soil Conservation Service and National Weather Service report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs. This report can be obtained from Soil Conservation Service, National Technical Center, Rm. 510, 511 NW Broadway, Portland, Oregon 97209.

In California, the program is coordinated by the California Department of Water Resources. The Canadian provinces of British Columbia and Alberta have comparable programs.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states.

STATE	ADDRESS
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Wyoming

Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504 Alaska Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025 Arizona Colorado (N. Mex.) 2490 W. 26th Ave., Diamond Hill, Bldg. A, Denver, Colorado 80211 Room 345, 304 N. 8th St., Boise, Idaho 83702 Idaho Room 443, Federal Building, 10 East Babcock, Bozeman, Montana 59715 Montana 50 S. Virginia Street, P. O. Box 4850, Reno, Nevada 89505 Nevada 1220 S.W. Third Ave., Portland, Oregon 97204 Oregon 4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138 Utah Washington 360 U.S. Court House, Spokane, Washington 99201

Federal Office Building, 100 East B. Street, Casper, Wyoming 82601

COVER PHOTO: Spring is on the way.

WATER SUPPLY OUTLOOK

FOR

IDAHO

and

Federal-State-Private Cooperative Snow Surveys

Issued by

Peter C. Meyers
Chief
Soil Conservation Service
Washington, D. C.

Released by

Stanley N. Hobson
State Conservationist
Soil Conservation Service
Boise, Idaho

In cooperation with

A. Kenneth Dunn Director Idaho Department of Water Resources Boise, Idaho

and

Soil Conservation Districts
NOAA-National Weather Service
Idaho Power Company
FMC Corporation
Washington Water Power Company

Report prepared by Snow Survey Staff

Gerald A. Beard Snow Survey Supervisor Soil Conservation Service Boise, Idaho

Soil Conservation Service Snow Survey Office Rm. 345, 304 No. 8th Street Boise, Idaho 83702



WATER SUPPLY OUTLOOK for IDAHO



GENERAL STATEMENT FOR JANUARY 1, 1984

The January 1, 1984 snow surveys indicate snowpack conditions vary widely across the state ranging from below normal conditions in the panhandle region of northern Idaho to record high conditions in the extreme southern and southeastern part of the state. Snowpack conditions range from a low of 74 percent of average on the Coeur d'Alene drainage in northern Idaho to a high of 353 percent of average on the Owyhee drainage in southwest Idaho. Most stations on the south side of the Snake drainage from the Owyhee Mountains eastward to Bear River drainage in southeastern Idaho reported record high snow water contents for January 1 with many of these stations having snow water equivalents equal to or above the average April 1 snow water content.

Low elevation snowpacks are extremely high across the entire southern half of the state creating potential flood situations. Rapid thawing or heavy precipitation in the form of rain on these snowpacks could force streams to reach flood stage.

Precipitation, most in the form of snow, was well above normal with amounts as much as 300 percent above average for southern Idaho. Over the north averages were near to slightly below normal.

Temperatures were extremely cold with numerous records being set during the entire month. Temperatures averaged 6 to 10 degrees below normal with readings as low as 54 degrees below zero at Stanley.

Most mountain watersheds received above normal moisture prior to the snow accumulation season and soil moisture conditions are wet or saturated throughout the state.

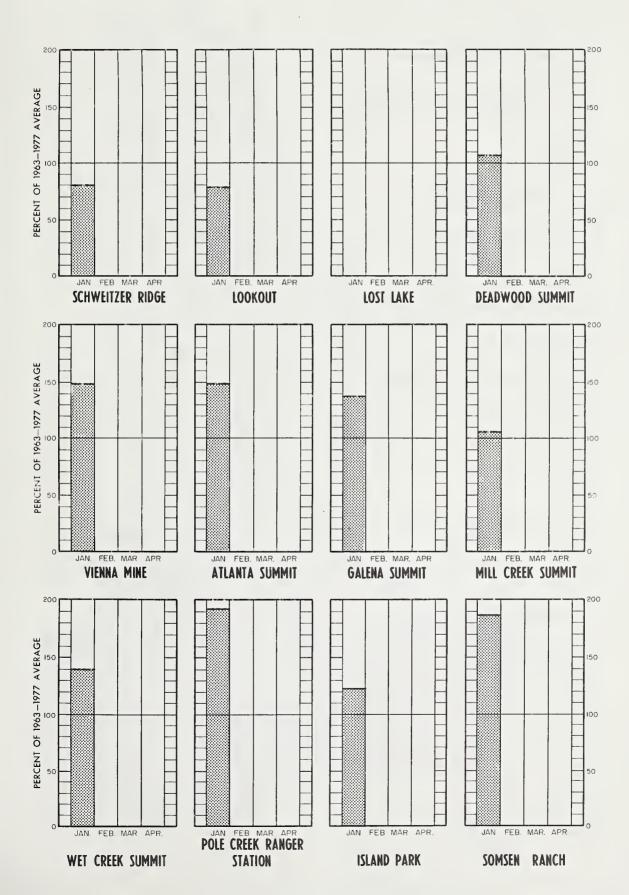
Reservoir carry-over storage is near average to well above average in most reservoirs, ranging from 62 percent of normal in Coeur d'Alene Lake to 329 percent in Lucky Peak Reservoir.

Carry-over storage in Salmon Falls Reservoir south of Twin Falls, coupled with the forecasted spring runoff for the Salmon Falls drainage, indicates this reservoir should fill to capacity for the first time since the dam was built in 1912. Oakley Reservoir, south of Burley is expected to fill to capacity for the first time since 1921.

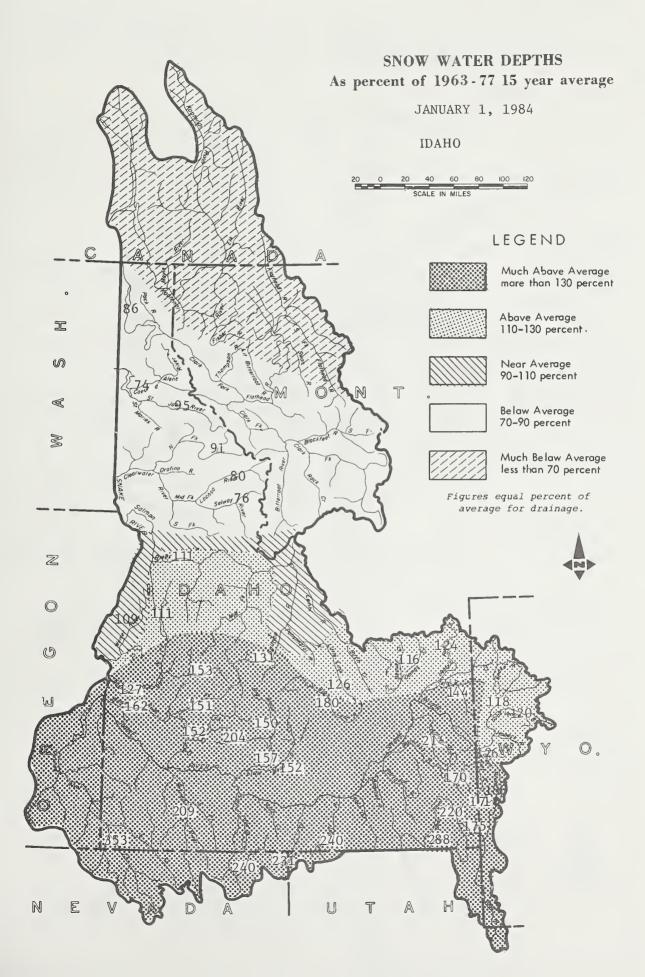
Streamflow forecasts range from 95 percent of average on the St. Joe River in northern Idaho to 200 percent of normal on the Owyhee River drainage in the southwest corner of the state. Near normal precipitation for the remainder of the season will assure Idaho water users throughout the state of an adequate water supply for 1984.

SNOW WATER DEPTHS ACCUMULATION For Selected Snow Courses

As Compared To 1961 - 1980 15 Year Average



4



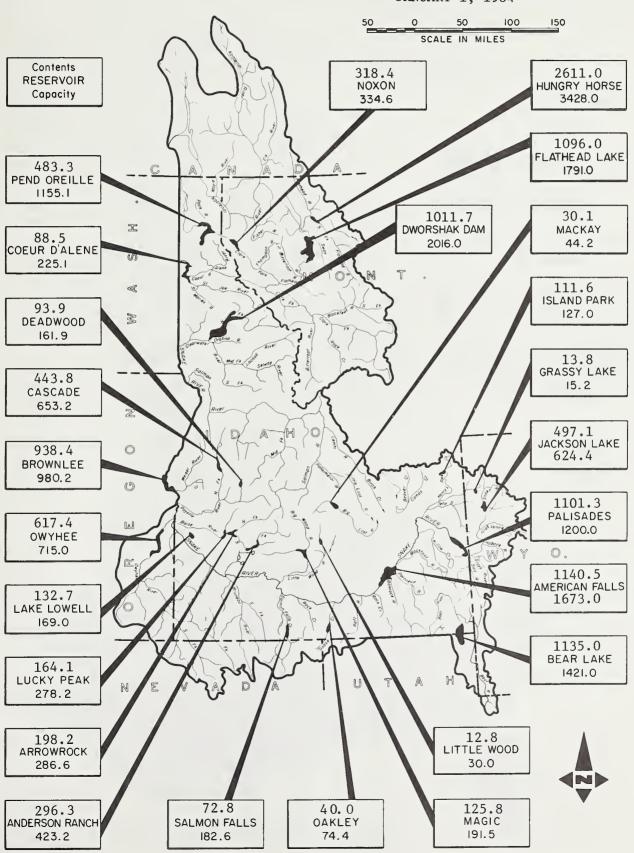
RESERVOIR STORAGE (1,000 Ac. Ft.)

Clark Fork - Pend Oreille	RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)			
Clark Fork - Pend Oreille Blungry Horse 3428.0 2611.0 3224.0 2299.0 1791.0 1996.0 1284.0 1372.0 1372.0 1525.1 4913.3 327.0 311.2 314.1 327.0 311.2 314.1 327.0 311.2 314.1 327.0 327.0	RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	1963 - 77 AVERAGE	
Hungry Horse 3428.0 2611.0 3224.0 2299.0 1286.0 1328.0 1325.0 1326.0 1328.0 1325.0 1326.0 1328.0 1325.0 1326.0 1328.0 1326.0 1328.0 1326.0 1328.0 1326.0 1328.0 1326.0 1328.0 1326.0 1328.0 1326	UPPER COLUMBIA BASIN					
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Spokane Coeur d'Alene 225.1 88.5 97.8 142.6						
Shake Shake Basin Shake		334.0	310.4	327.0	314.1	
SNAKE BASIN Snake						
Sanke	Coeur d'Alene	225.1	88.5	97.8	142.6	
Sackson Lake	SNAKE BASIN					
Palisades 1200.0 1101.3 1165.7 817.4 American Falls 1673.0 1140.5 1201.6 1296.9 Island Park 127.0 111.6 107.2 86.5 Crassy Lake 15.2 13.8 12.1 9.8 Brownlee 980.2 938.4 959.6 818.5 Coose-Trapper Creeks Oakley 74.4 40.0 25.2 22.6 Salmon Falls Creek Salmon Falls Creek Salmon Falls Creek Big Lost Mackay 44.2 30.1 37.8 25.5 Big Wood Magic 191.5 125.8 153.3 82.1 Little Wood 11.1 8.85 7.6 Little Wood 30.0 12.8 22.9 12.7 Fish Creek Carey Valley 14.4 8.85 7.6 Anderson Ranch 423.2 296.3 351.4 270.7 Arrowrock 286.6 198.2 120.0 202.5 Lucky Peak 278.2 164.1 212.1 49.8 Lake Lowell (Deer Flat) 169.0 132.7 130.2 108.5 Owyhee Owyhee Owyhee Owyhee 715.0 617.4 558.6 312.8 Deadwood 161.9 93.9 76.3 68.7 Weiser Mann Creek 11.1 4.9 6.9 Clearwater Dworshak 2016.0 1011.7 1179.5 Bear Bear Bear Lake 1421.0 1135.0 1176.8 973.3	Snake					
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Oakley 74.4 40.0 25.2 22.6 Salmon Falls 182.6 72.8 39.1 41.6 Big Lost 30.1 37.8 25.5 Big Wood 44.2 30.1 37.8 25.5 Big Wood 191.5 125.8 153.3 82.1 Little Wood 30.0 12.8 22.9 12.7 Fish Creek 2 296.3 351.4 270.7 Carey Valley 14.4 8.85 7.6 Boise Anderson Ranch 423.2 296.3 351.4 270.7 Arrowrock 286.6 198.2 120.0 202.5 Luck Peak 278.2 164.1 212.1 49.8 Lake Lowell (Deer Flat) 169.0 132.7 130.2 108.5 Owyhee 715.0 617.4 558.6 312.8 Payette Cascade 653.2 443.8 432.8 353.4 Cascade 653.2 443.8 432.8 353.4 Deadwood 161.9 93.9 76.3 68.7 Weiser 11.1 4.9 6.9 Clearwater Dworshak 2016.0 1011.7 1179.5		980.2	938.4	959.6	818.5	
Salmon Falls Creek Salmon Falls 182.6 72.8 39.1 41.6 Big Lost	Goose-Trapper Creeks					
Salmon Falls Big Lost Mackay Mackay Magic Little Wood Little Wood Little Wood Little Wood Little Wood Addreson Ranch Arrowrock Anderson Ranch Arrowrock Lucky Peak Lake Lowel1 (Deer Flat) Owyhee Owyhee Owyhee Owyhee Tisology And Salmon Meiser Mann Creek Little Wood Litt	•	74.4	40.0	25.2	22.6	
Big Lost 44.2 30.1 37.8 25.5 Big Wood 191.5 125.8 153.3 82.1 Little Wood 30.0 12.8 22.9 12.7 Fish Creek Carey Valley 14.4 8.85 7.6 Boise Anderson Ranch 423.2 296.3 351.4 270.7 Arrowrock 286.6 198.2 120.0 202.5 Lucky Peak 278.2 164.1 212.1 49.8 Lake Lowel1 (Deer Flat) 169.0 132.7 130.2 108.5 Owyhee 715.0 617.4 558.6 312.8 Payette Cascade 653.2 443.8 432.8 353.4 Cascade beadwood 161.9 93.9 76.3 68.7 Weiser Mann Creek 11.1 4.9 6.9 Clearwater Dworshak 2016.0 1011.7 1179.5 Bear Bear Lake 1421.0 1135.0 1176.8 973.3	Salmon Falls Creek					
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Big Wood Magic 191.5 125.8 153.3 82.1 Little Wood 30.0 12.8 22.9 12.7 Fish Creek Carey Valley 14.4 8.85 7.6 Boise Anderson Ranch Arrowrock 423.2 296.3 351.4 270.7 Arrowrock 286.6 198.2 120.0 202.5 Lucky Peak 278.2 164.1 212.1 49.8 Lake Lowell (Deer Flat) 169.0 132.7 130.2 108.5 Owyhee 715.0 617.4 558.6 312.8 Payette Cascade Deadwood 653.2 443.8 432.8 353.4 Deadwood 161.9 93.9 76.3 68.7 Weiser 11.1 4.9 6.9 Clearwater Dworshak 2016.0 1011.7 1179.5 Bear Bear Lake 1421.0 1135.0 1176.8 973.3	Big Lost					
Magic 191.5 125.8 153.3 82.1 Little Wood 30.0 12.8 22.9 12.7 Fish Creek Carey Valley 14.4 8.85 7.6 Boise Anderson Ranch 423.2 296.3 351.4 270.7 Arrowrock 286.6 198.2 120.0 202.5 Lucky Peak 278.2 164.1 212.1 49.8 Lake Lowel1 (Deer Flat) 169.0 132.7 130.2 108.5 Owyhee 715.0 617.4 558.6 312.8 Payette Cascade 653.2 443.8 432.8 353.4 Cascade 653.2 443.8 432.8 353.4 Meiser 161.9 93.9 76.3 68.7 Weiser 11.1 4.9 6.9 Clearwater 2016.0 1011.7 1179.5 Bear Bear 1421.0 1135.0 1176.8 973.3	Mackay	44.2	30.1	37.8	25.5	
Little Wood Little Wood Little Wood Sish Creek Carey Valley Anderson Ranch Anderson Ranch Arrowrock Lucky Peak Lake Lowell (Deer Flat) Cwyhee Owyhee Owyhee Tiso Cascade Deadwood Toso Boise Anderson Ranch Arrowrock Anderson Ranch A	Big Wood					
Little Wood 30.0 12.8 22.9 12.7 Fish Creek Carey Valley 14.4 8.85 7.6 Boise Anderson Ranch 423.2 296.3 351.4 270.7 Arrowrock 286.6 198.2 120.0 202.5 Lucky Peak 278.2 164.1 212.1 49.8 Lake Lowell (Deer Flat) 169.0 132.7 130.2 108.5 Owyhee Owyhee 715.0 617.4 558.6 312.8 Payette Cascade 653.2 443.8 432.8 353.4 Payette Cascade 653.2 443.8 432.8 353.4 Bear Lake 2016.0 1011.7 1179.5 GREAT BASIN Bear Bear Lake 1421.0 1135.0 1176.8 973.3	Magic	191.5	125.8	153.3	82.1	
Fish Creek Carey Valley 14.4 8.85 7.6 Boise Anderson Ranch Arrowrock 286.6 198.2 120.0 202.5 Lucky Peak Lake Lowell (Deer Flat) Owyhee Owyhee Owyhee Tis.0 617.4 558.6 312.8 Payette Cascade Deadwood 161.9 93.9 76.3 68.7 Weiser Mann Creek 11.1 4.9 6.9 Clearwater Dworshak 2016.0 1011.7 1179.5 GREAT BASIN Bear Bear Lake 1421.0 1135.0 1176.8 973.3	Little Wood					
Carey Valley	Little Wood	30.0	12.8	22.9	12.7	
Anderson Ranch Arrowrock Arrowrock Lucky Peak Lake Lowel1 (Deer Flat) Owyhee Owyhee Cascade Deadwood Meiser Mann Creek Clearwater Dworshak Bear Bear Bear Lake Add 23.2 296.3 351.4 270.7 290.3 296.3 351.4 270.7 202.5 202.5 2164.1 212.1 49.8 169.0 132.7 130.2 108.5 Owyhee 617.4 558.6 312.8 443.8 432.8 353.4 68.7 Add 290.0 1011.7 1179.5 GREAT BASIN Bear Bear Lake 1421.0 1135.0 1176.8 973.3	Fish Creek					
Anderson Ranch Arrowrock	Carey Valley	14.4	8.85	7.6		
Anderson Ranch Arrowrock	Boise					
Arrowrock Lucky Peak Lucky Peak Lake Lowell (Deer Flat) Owyhee Owyhee Owyhee Cascade Deadwood Mann Creek Mann Creek Dworshak Dworshak Dear Dworshak Dear Bear Bear Lake 128.6 198.2 120.0 132.7 164.1 212.1 130.2 108.5 49.8 108.5 617.4 558.6 312.8 443.8 432.8 353.4 68.7 Clearwater Dworshak 2016.0 1011.7 1179.5 GREAT BASIN Bear Bear Lake 1421.0 1135.0 1176.8 973.3		423.2	296.3	351.4	270.7	
Lake Lowell (Deer Flat) 169.0 132.7 130.2 108.5 Owyhee 715.0 617.4 558.6 312.8 Payette Cascade Deadwood 653.2 443.8 432.8 353.4 Weiser Mann Creek 11.1 4.9 6.9 Meriser 11.1 4.9 6.9 Clearwater Dworshak 2016.0 1011.7 1179.5 GREAT BASIN Bear 1421.0 1135.0 1176.8 973.3	Arrowrock				202.5	
Owyhee 715.0 617.4 558.6 312.8 Payette 653.2 443.8 432.8 353.4 Deadwood 161.9 93.9 76.3 68.7 Weiser Mann Creek 11.1 4.9 6.9 Clearwater Dworshak 2016.0 1011.7 1179.5 GREAT BASIN Bear 1421.0 1135.0 1176.8 973.3						
Owyhee 715.0 617.4 558.6 312.8 Payette 653.2 443.8 432.8 353.4 Deadwood 161.9 93.9 76.3 68.7 Weiser 11.1 4.9 6.9 Clearwater 2016.0 1011.7 1179.5 Bear Bear Lake 1421.0 1135.0 1176.8 973.3		169.0	132.7	130.2	100.5	
Payette Cascade		715.0	(17. /	550.6	212.0	
Cascade Deadwood 653.2 443.8 432.8 353.4 68.7 Weiser Mann Creek 11.1 4.9 6.9 Clearwater Dworshak 2016.0 1011.7 1179.5 GREAT BASIN Bear Lake 1421.0 1135.0 1176.8 973.3		/15.0	617.4	558.6	312.8	
Deadwood 161.9 93.9 76.3 68.7 Weiser 11.1 4.9 6.9 Clearwater Dworshak 2016.0 1011.7 1179.5 GREAT BASIN Bear 1421.0 1135.0 1176.8 973.3						
Mann Creek 11.1 4.9 6.9 Clearwater 2016.0 1011.7 1179.5 GREAT BASIN Bear 1421.0 1135.0 1176.8 973.3				1		
Mann Creek 11.1 4.9 6.9 Clearwater 2016.0 1011.7 1179.5 GREAT BASIN Bear 1421.0 1135.0 1176.8 973.3	Weiser					
Clearwater 2016.0 1011.7 1179.5 Bear Bear Lake 1421.0 1135.0 1176.8 973.3		11.1	4.9	6.9		
Dworshak 2016.0 1011.7 1179.5 GREAT BASIN Bear Bear Lake 1421.0 1135.0 1176.8 973.3						
GREAT BASIN Bear Bear Lake 1421.0 1135.0 1176.8 973.3		2016.0	1011 7	1170 5		
Bear Lake 1421.0 1135.0 1176.8 973.3		2016.0	1011.7	11/9.5		
Bear Lake 1421.0 1135.0 1176.8 973.3						
	Bear				,	
Montpetter Greek 4.03 2.43					973.3	
	montperrer creek	4.03	2.43	2.45		

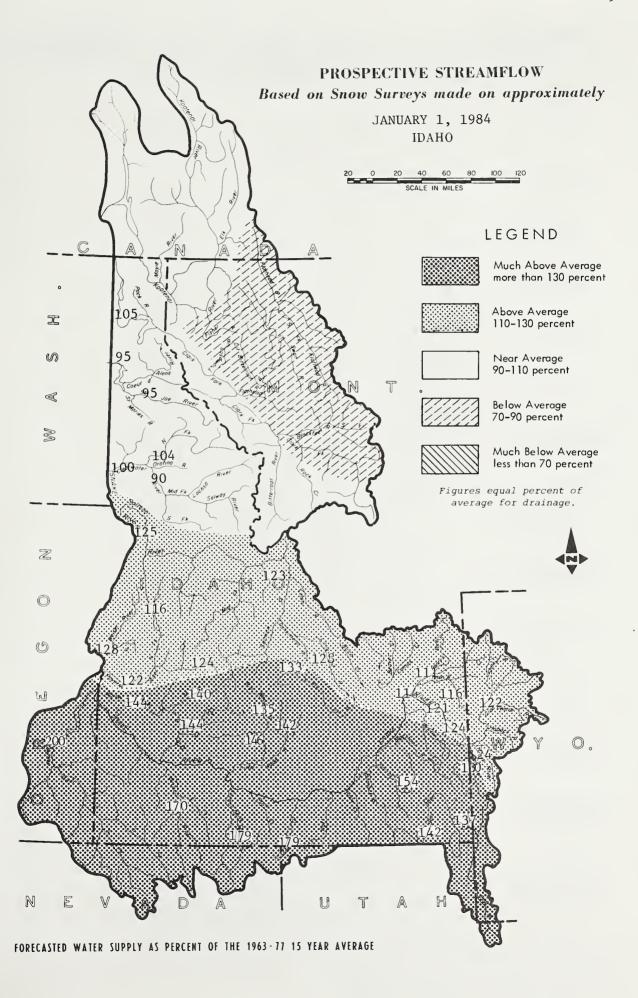
RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JANUARY 1, 1984



STREAMFLOW FORECASTS		FORECAST C FORECAST			PAST RECORD THOUSAND ACRE FEET		
BASIN, STREAM and/or FORE	CAST POINT	Thousand Acre Feet	Percent of Average	FORECAST PERIOD	Last Year	Average *	
	UPF	PER COLUMBIA BAS	IN				
GOOTENAI RIVER	011	ER COLUMN DAS	114				
COOTEMIT KIVEK							
Leonia	(at)	8350 7260 5870	97 97 97	Apr-Sep Apr-Jul Apr-Jun	 	8602 7498 6051	
PEND OREILLE RIVER Clark Fork River							
Whitehorse Rap id s	(at)	11100 10100 8640	82 82 82	Apr-Sep Apr-Jul Apr-Jun	 	13575 12351 10570	
Pend Oreille Lake Inflow		12700		Apr-Sep			
		11400		Apr-Ju1			
Priest River 1/	(at)	941 885	105 105	Apr-Sep Apr-Jul		895 841	
Post Falls 2/	(at)	2730 2640	95 96	Apr-Sep Apr-Jul	 	2860 2756	
St. Joe River Calder	(at)	1230	95	Apr-Sep		1294	
Caraci	(40)	1160	95	Apr-Jul	'	1225	
	SN	AKE RIVER BASIN					
SNAKE RIVER - MAIN STEM							
Moran 3/ Palisades Inflow 3/	(at)	1080 4695	122 124	Apr-Sep Apr-Sep	 	885 3798	
Heise 4/	(nr)	4900	121	Apr-Sep		4066	
		4170	120	Apr-Jul		3465	
Blackfoot <u>5</u> /	(nr)	6500 5300	120 120	Apr-Sep Apr-Jul		5430 4429	
Henrys Fork		700	2.2.2			71/	
Ashton <u>6</u> /	(nr)	790 597	111 113	Apr-Sep Apr-Ju1		714 529	
Rexburg <u>7</u> /	(nr)	1680 1330	114 115	Apr-Sep Apr-Ju1		1475 1153	
Teton						194	
South Leigh Creek	(ab)	225 170	116 117	Apr-Sep Apr-Jul		145	
Portneuf River Topaz	(at)	157	154	Mar-Sep		102.1	
	\ <i>\</i>	127	155	Mar-Jul		82.2	
Oakley Reservoir Inflow		54 49	179 180	Apr-Sep Apr-Jul		30.2 27.2	
Salmon Falls Creek	(nx)	168	179	Mar-Sep		94.0	
San Jacinto	(nr)	160 151	179 179 179	Mar-Jul Mar-Jun		89.3 84.4	
		151					
Bruneau River Hot Springs	(nr)	412 394	170 170	Mar-Sep Mar-Jul		243 232	
Little Lost River Howe	(nr)	54.6 42.4	130 130	Apr-Sep Apr-Jul		42.2 32.6	
Hot Crook	(b1)	49.5	128	Apr.Sep		38.8	
Wet Creek	(b1)	40.2	128 128	Apr-Jul Apr-Jun	- -	31.4 25.0	



REAMFLOW FORECASTS	THIS YEAR PAST RECORD						
	FORE	CAST C	FORECAST	RECAST THOUSAND ACRE FEET			
BASIN, STREAM and/or FOR	ECAST POINT	Thousand Acre Feer	Percent of Average	PERIOD	Last Year	Average	
ig Lost River							
Howell Ranch	(at)	281	133	Apr-Sep		211	
	()	249	134	Apr-Jul		186	
		193	134	Apr-Jun		144	
				-			
Mackay <u>8</u> /	(nr)	250	136	Apr-Sep		184	
ig Wood River							
Bellevue	(nr)	261	135	Apr-Sep		193	
		244	136	Apr-Jul		180	
Magic Reservoir		446	146	Mar-Jul		306	
Inflow 9/		431	146	Apr-Sep		295	
111110w <u>9</u> /		409	146	Apr-Jul		280	
		407	140	npr our		200	
ittle Wood River							
Carey <u>10</u> /	(nr)	143	142	Apr-Sep		101.0	
		132	142	Apr-Jul		93.1	
		117	142	Apr-Jun		82.6	
oise River							
Twin Springs	(nr)	985	140	Apr-Sep		705	
. 0	,	922	142	Apr-Jul		650	
D 11 /	()	2260	1//	A = C		1571	
Boise 11/	(nr)	2260	144 144	Apr-Sep		1571	
		2100 1842	144	Apr-Jul Apr-Jun		1454 1279	
		1042	144	npi-sun		1217	
outh Fork							
Anderson Dam 12/	(at)	850	144	Apr-Sep		590	
		794	144	Apr-Jul		551	
wyhee River							
Gold Cr., Nv 13/	(nr)	50.0	185	Apr-Jul		27.1	
Owyhee, Nv $13/$	(nr)	180.0	219	Apr-Jul		82.1	
Lake Owyhee		752	200	Apr-Sep		376	
net inflow $14/$		1200	214	Feb-Jul		561	
Rome	(at)	1285	215	Feb-Jul		598	
ayette River							
Horseshoe Bend 15/	(nr)	2210	122	Apr-Sep		1805	
		2040	122	Apr-Jul		1668	
March Produ							
North Fork	(at)	643	116	Apr-Sep		553	
Cascade <u>16</u> /	(at)	603	116	Apr-Jul		518	
Banks 16/	(nr)	833	117	Apr-Sep		712	
Danks 10/	()	785	117	Apr-Jul		671	
South Fork	(-4)	615	124	Apr-Sep		497	
Lowman	(at)	547	124	Apr-Sep Apr-Jul		441	
Deadwood Reservoir In:	flow	177	123	Apr-Jul		144	
eiser River		5.77	120	Apr-Sep		442	
Weiser	(nr)	567 716	128 128	Apr-Sep Mar-Sep		558	
		531	128	Apr-Jul		414	
almon River		0000	125	Apr C		7188	
Whitebird	(at)	9000 8135	125 125	Apr-Sep Apr-Jul		7188 6497	
		8133	123	API-Jul		0-777	
Salmon .	(nr)	1380	123	Apr-Sep		1123	
Jos Zino II	\/	1180	123	Apr-Jul		960	
learwater River	(0+)	5000	100	Apr-Sep		Ś308	
Orofino	(at)	5000 4740	100	Apr-Sep Apr-Jul		5029	
				-			
	(a+)	0.00	100	Ann Con	-2	8672	
Spalding	(at)	8630 8160	100	Apr-Sep Apr-Jul		8192	

STREAMFLOW FORECASTS			THIS YEAR	PAST RECORD		
		FORE	CAST C	FORECAST	THOUSAND A	CRE FEET
BASIN, STREAM and/or	FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average +
North Fork Clearwater						
Dworshak Reservoir	Inflow	3170	104	Apr-Sep		3040
		2970	104	Apr-Ju1		2845
		GREAT BASIN	Ī			
BEAR RIVER Harer	(at)	553	178	Apr-Sep		310
Montpelier Creek Montpelier	(nr)	19.1	137	Apr-Sep		13.9
Cub River Preston	(nr)	73.5 67	142 143	Apr-Sep Apr-Jul		51.8 46.8

- 1/ Observed flow corrected for storage in Priest Lake.
- $\frac{\overline{z}}{2}$ / Observed flow corrected for storage in Coeur d'Alene Lake.
- $\overline{3}$ / Corrected for storage in Jackson Lake.
- 4/ Corrected for storage in Jackson Lake and Palisades.
- 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henrys Lake, Grassy Lake and diversions between Heise and Blackfoot.
- $\underline{6}/$ Corrected for storage in Henrys Lake and Island Park Reservoir.
- 7/ Corrected for storage in Henrys Lake and Island Park, Grassy Lake and diversions between Aston and Rexburg.
- 8/ Observed flow corrected for storage in Mackay Reservoir.
- 9/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
- 10/ Corrected for storage in Little Wood Reservoir.
- 11/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
- 12/ Corrected for storage in Anderson Ranch Reservoir.
- 13/ Corrected for storage in Wildhorse Reservoir.
- 14/ From Bureau of Reclamation records of inflow.
- 15/ Corrected for storage in Cascade and Deadwood Reservoirs.
- 16/ Corrected for storage in Cascade Reservoir.

NOW				<u> </u>	THIS YEAR			RECORD
DRAINAGE	BASIN a	and or SNOW COURSE	· · · · · · · · · · · · · · · · · · ·	Date of Survey	Snow Depth (Inches)	Water Content (Inches)		tent (inches)
NAME &	DRAI	NAGE	Elevation		((Last Year	b Average
Above Burke		Coeur d'Alene	4100	12/29	30	5.8	7.8	8.7
Arizona	(Wy)	Snake	6820	1/3	42	10.5	10.7	7.9
Antelope Ridge		Owyhee	6180	1/1	32	9.1	4.2	
Aspen Grove		Willow	6500	1/1		9.8e	.7.1	5.1
	(Wy)	Snake	7750	1/3	51	13.5	15.3	12.5
Atlanta Summit		Boise	7600	1/1		21.8e	21.2	14.6
Bad Bear Banner Summit		Boise Payette	4940	12/29	42	9.0	7.1	5.4
	(Wy)	Snake	7040 7030	1/1 1/4	36	16.6e	16.9	
Bear Basin	(11))	Little Salmon	5350	1/1	30	9.5 10.0e	12.4	8.6
Bear Canyon		Big Lost	7900	1/1		9.5e	12.4	6.5
Bear Saddle		Mann Creek	6180	1/1		15.2e	18.4	
Bennett Mountain		Canyon Creek	6560	1/2	54	15.6	12.4	
Benton Meadow		Priest	2370	12/30	20	2.9	3.9	3.0
Benton Spring		Priest	4920	1/3	36	8.6	10.4	8.4
Big Creek Summit		Salmon	6580	12/29	60	16.5	19.9	14.6
Big Springs		Henrys Fork	6400	12/30	38	9.3	11.7	8.0
Birch Creek	(14:)	Willow	6800	12/28	27	7.3	5.1	3.7
	(Mt)	Madison	7950	12/29	64	19.0	25.3	16.3
	(Mt)	Beaverhead	7600	12/27	22	5.2	5.4	
Blue Ridge Bogus Basin		Blackfoot	6780	12/28	50	14.9	11.7	
Bogus Basin Road		Payette Boise	6340 5540	12/30 12/30	61 36	18.5	15.8	9.3
Bone		Willow	6200	12/30	24	9.7 5.6	6.3 4.5	2.7° 2.6°
Boulder Creek		Weiser	5440	12/29	44	9.6	14.3	9.9
Breezy Saddle		Clearwater	5010	1/6	38	10.0		J. J
Brockman Station		Willow	6430	12/28	29	7.9	5.8	
Brundage Mountain		Little Salmon	7560	1/1		20.4e	24.5	20.1
Bruno Creek		Salmon	7920	1/3	42	11.3	10.0	
Camas Creek Divide		Big Wood	5710	1/2	50	14.7		
Camp Creek		Beaver	6580	12/27	24	4.4	9.0	4.4
Cayuse Airstrip		Clearwater	3500	1/9	23	5.0		5.4
	(Wy)	Salt	7000	12/29	36	8.4	5.0	5.1
Copper Basin		Big Lost	7640	1/1		8.8e	7.5	3.7
Couch Summit		Boise	6840	1/2	53	13.6	14.3	7.1
Cozy Cove Crater Meadows		Deadwood Clearwater	5380 5960	1/10 1/9	39 55	10.2 18.2	10.5	7.0
Crawford Ranger Sta	tion		4860	1/9	23	4.2	6.7	18.0° 2.9°
Crooked Fork	CION	Lochsa	3610	12/29	24	4.9	4.0	5.3
Cub River Ranger St.	ation		5450	12/29	43	11.2	5.0	3.5
	(Wy)	Teton	8250	12/28	48	14.1	11.1	9.7
eadline		Salmon Falls	7400	12/29	69	21.4	13.8	8.7
eadline South		Salmon Falls	7450	12/29	75	22.9	16.8	9.7
eadwood Airstrip		Deadwood	5360	1/1		11.0e	11.1	6.4
eadwood Summit		Deadwood	6860	1/10	69	23.2	26.1	21.5
ollarhide Summit		Big Wood	8420	1/1		18.2e	16.1	11.6
21k Butte		Clearwater	5550	1/6	55	14.6		
Emigrant Summit		Bear	7390	1/1		21.1e	13.5	9.6
Fish Lake Airstrip		Lochsa	5650	1/9	46	12.6		16.9
Forty-nine Meadows		Clearwater	4830	1/6	40	10.4	 10.7	12.1
Tranklin Basin Tranklin Basin Snot	0.1	Cub Cub	8040 8170	12/29 12/29	66 77	20.7 22.8	10.7 	7.5
	(Wy)	Teton	8150	1/1	//	14.6e	11.8	10.4
Galena	("))	Big Wood	7440	12/28	44	11.5	12.7	7.7
Galena Snotel		Big Wood	7470	12/28	44	12.1	12.5	
Galena Summit		Big Wood	8780	12/28	50	14.1	16.5	10.2
Sarfield Ranger Sta	tion	Little Wood	6560	12/27	29	7.2	9.2	4.0
_	(Mt)	Bitterroot	7100	12/27	35	8.9	10.6	9.4
Giveout		Montpelier	6860	1/1		8.3e	5.4	4.9
Glade Creek	(Wy)	Snake	7040	1/3	50	13.3	12.0	9.2
Goat Creek		Salmon Falls	8880	12/28	64	16.8	9.3	7.4
Fraham Ranch		Big Wood	6270	12/28	37	9.5	10.7	5.4
	(Wy)	Henrys Fork	7265	1/3	65	18.3	16.1	14.6
	(Wy)	Greys	5720	12/29	. 34	8.2	4.6	4.4
Grover Park Divide		Salt	7000	12/30	35	8.4	4.2	4.8
	(Mt)	Clark Fork	4800	1/2	35	8.6	7.6	8.5
Hemlock Butte		Clearwater	5810	1/9	62 28	19.4	 7 0	20.5
Hilts Creek Hoodoo Basin	(M+)	Little Lost	8000	12/30	28	4.6 18.1	7.0 21.2	20.1
OUGGO BASIN	(Mt)	Clark Fork	6000	1/2	62 58	17.3		17.8
	(M+)	Clark Fowl.						
	(Mt)	Clark Fork Marsh Creek	5900 7980	1/2 1/1	36	25.2e	18.8 15.9	10.5

⁽b)1961-1980, 20 year period. *Estimated 1961-1980 20 year average.
(A)Aerial observation, water content estimated.
(e)Snow course data estimated from automated Snotel readings.

SNOW					THIS YEAR	,		RECORD
		nd or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)		tent (inches)
NAME &	DRAIN	AGE	Elevation				Last Year	b Average
Humboldt Gulch		Coeur d'Alene	4250	12/29	23	3.6	6.0	
Hyndman Creek		Big Wood	7440	1/1	23	7.8e	10.4	
Idaho City Townsite		Boise	4000	12/29	29	4.0	3.1	
Indian Meadows		Teton	8240	12/28	72	22.2	21.7	15.4
Island Park		Henrys Fork	6290	12/30	35	7.9	10.8	6.4
Jackpine Creek	(Wy)	Teton	7350	12/28	46	12.0	12.4	
Jackson Peak		Boise	7070	1/10	56	16.8	18.1	14.2
Kilgore		Camas Creek	6320	12/28	28	5.8	8.8	4.4
Lake Fork		Payette	5290	1/2	41	9.1	9.0	7.4
Lakeview Canyon	(Mt)	Beaverhead	6930	12/27	21	5.1	9.8	5.4
akeview Ridge	(Mt)	Beaverhead	7400	12/27	21	5.1	9.2	4.8
Langford Flat Creek		Salmon Falls	5980	1/3	35	10.1	3.9	
Lava Creek		Willow	7350	12/28	43	11.9	9.0	5.0
Lemhi Ridge	(Mt)	Beaverhead	8100	12/27	24	5.0		
Lewis Lake Divide	(Wy)	Snake	7850	1/3	71	22.5	20.9	17.0
Little Beaver	` ` , `	Montpelier	6970	1/1	, _	9.9e	7.1	5.7
ittle Camas Flat		Boise	4940	1/3	33	8.6	5.8	
Lolo Pass		Lochsa	5240	12/29	35	8.0	8.8	12.1
Lookout		Coeur d'Alene	5140	12/30	49	11.2	16.8	14.4
ost Horse	(Mt)	Bitterroot	5940	12/29	39	9.6	10.4	13.3
ost Lake	()	Clearwater	6110	1/6	68	20.8		
ost-Wood Divide		Big Lost	7900	1/1	00	15.3e	14.2	10.5
Madison Plateau	(Mt)	Madison	7750	12/27	41	10.0	14.5	9.5
Magic Mountain	(110)	Rock Creek	6880	12/29	71	20.4	10.8	7.4
lascot Mine		Big Wood	7780	1/1	/ 1	7.8e	10.4	6.1
icRenolds Reservoir		Teton	6720	12/28	39	10.2	10.4	7.8
ill Creek Summit		Salmon	8800	1/1	39	10.2 10.6e		
ontpelier Creek		Montpelier	6540	$\frac{1}{1}$			13.5	10.1
loores Creek Summit		Boise	6100	12/29	6.0	5.7e	3.9	3.3
loose Creek		N.F. Salmon			68	24.4	18.3	13.1
loran	(11)		6200	12/28	30	7.6	8.8	7.1
	(Wy)	Snake	6750	1/4	32	7.0	5.4	5.4
lorgan Creek		Salmon	7600	12/28	25	5.9	8.4	5.9
Mount Baldy		Big Wood	8920	1/2	53	13.6	15.5	8.5
fud Creek		Willow	7100	12/28	51	15.2	13.4	
fud Flat		Owyhee	5730	1/1	35	10.0	4.4	
uldoon		Little Wood	6320	12/27	20	4.0	8.2	3.1
acksaddle Spring		Teton	8200	12/28	55	17.4	17.6	
ierce Ranger Statio	on	Clearwater	3080	12/30	24	4.0	3.4	4.7
ine Creek Pass		Teton	6810	12/29	40	10.8	7.4	6.9
ole Creek Ranger St	tation	0	8360	12/28	63	16.8	11.4	8.7
lock Flat Summit		Payette	5310	12/31	44	9.6	12.3	7.3
addle Mountain	(Mt)	Bitterroot	7940	12/27	37	9.5	11.2	10.7
alt River Summit	(Wy)	Salt	7700	12/29	42	9.8	6.4	6.3
awtell Mountain		Henrys Fork	8720	12/30	65	20.7	23.1	13.7
chweitzer Basin		Pend Oreille	6090	1/1		19.2e	24.1	
chweitzer Bowl		Pend Oreille	4800	1/1		11.2e	18.6	13.5
chweitzer Ridge		Pend Oreille	6200	1/1		16.8e	26.3	21.1
ecesh Summit		Payette	6520	1/7	49	14.8	20.6	14.8
hanghai Summit		Clearwater	4570	1/6	36	9.1		9.8
herwin		St. Maries	3200	1/3	28	6.4	4.4	5.6
hoshone Basin		Salmon Falls	5810	1/3	33	9.3	4.6	3.0
lug Creek Divide		Blackfoot	7230	1/1		10.6e	7.4	6.8
nake River Station	(Wy)	Snake	6920	1/3	45	11.0	9.2	8.5
now King Mtn. #3	(Wy)	Gros Ventre	7660	12/29	32	8.0	7.6	6.8
oldier Ranger Stati	ion	Big Wood	5740	1/2	44	10.5	12.8	4.7
omsen Ranch		Willow Creek	6840	1/1		10.8e	6.3	5.8
outh Mountain		Jordan-Owyhee	6500	12/31	60	18.0	11.3	5.1
quaw Flat		Weiser	6240	1/2	45	11.0	17.5	9.1
quaw Meadow		Payette	5900	1/7	49	15.6	20.9	15.8
tate Line		Teton	6660	12/29	34	9.3	6.9	6.0
tickney Mill		Big Lost	7430	1/1		9.0e	7.2	3.0
wede Peak		Little Wood	7640	12/27	39	11.5	13.4	7.6
arghee Pass		Henrys Fork	6980	12/30	30	6.6	9.0	6.1
humb Divide	(Wy)	Snake	7980	1/3	35	8.4	9.7	8.6
ogwotee Pass	(Wy)	Snake	9580	1/4	55	16.5	13.2	13.6
rinity Mountain	. , ,	Boise	7770	1/1		25.4e	26.6	18.5
welve Mile Creek	(Mt)	Bitterroot	5600	12/29	32	7.1	7.9	8.5
win Lakes	(Mt)	Bitterroot	6510	12/29	45	11.8	13.2	17.2
win takes witchell Canyon	(110)	Blackfoot	6300	12/29	42	10.2	10.1	
alley View		Henrys Fork	6680	12/30	30	6.9	10.1	6.2
•		Salmon	8960	1/1	30	22.4e	19.2	15.0
ienna Mine		Weiser	5560	$\frac{1}{12}$	45	10.0	14.8	

⁽b)1961-1980, 20 year period. *Estimated 1961-1980 20 year average.

(A)Aerial observation, water content estimated.

(a) Snow course data estimated from automated Snotel readings.

SNOW		THIS YEAR			PAST RECORD			
DRAINAG	E BASIN a	nd or SNOW COURSE		Date	Snow Depth	Water Content	Water Content (inches)	
NAME & DRAINAGE Elevation			Elevation	of Survey	(Inches)	(Inches)	Last Year	b Average
Wet Creek Summit		Little Lost	7680	12/30	28	6.0	11.2	4.3*
Whiskey Creek Whiskey Flat	(Mt)	Madison Montpelier	6800 6960	12/27 1/1	38	9.0 6.7e	11.5 5.2	7.1 3.6*
White Elephant Willow Flat		Henrys Fork Cub	7710 6070	12/30 12/29	46 59	13.3 16.4	· 15.3 7.4	9.1* 6.1*

SNOTEL1/

Data Site Name	Drainage	Date	Pillow Snow Water Equivalent (inches)	Precipitation Water Year (Accumulative) (inches)
Atlanta Summit	Boise	12/31	19.1	24.2
Banner Summit	Pavette	1/1	14.7	20.4
Base Camp	Upper Snake	1/1	8.8	14.1
Bear Basin	Little Salmon	1/1	9.3	14.5
			8.3	
Bear Canyon	Big Lost	1/1		12.6
Bear Creek	Jarbidge	12/31	19.5 17.0	21.0
Bear Mountain	Clark Fork	1/1		30.0
Bear Saddle	Mann Creek	1/1	14.6	15.9
Bennett Mountain	Canyon Creek	1/1	19.1	19.8
Big Creek Summit	Salmon	1/1	15.4	21.8
Big Sandy Opening	Green	1/1	NA	8.4
Blind Bull Summit	Green	1/1	15.3	15.9
Bostetter Ranger Station	Trapper	1/1	NA	17.3
Bunchgrass Meadow	Pend Oreille	1/1	12.8	20.9
Cottonwood Lake	Salt	1/1	14.1	20.7
Coulter Creek	Upper Snake		NA	NA
Cozy Cove	Deadwood	1/1	12.9	19.2
Crab Creek	Camas-Beaver	12/30	NA	14.2
Deadwood Summit	Deadwood	12/31	22.5	26.9
Dollarhide Summit	Big Wood	1/1	18.4	18.9
Elk Butte	Clearwater	1/1	18.8	23.1
Elkhart Park Guard Station	Green	12/30	8.7	10.1
Emigrant Summit	Bear	1/1	24.5	26.4
Franklin Basin	Cub	1/1	23.1	23.9
Galena	Big Wood	1/1	11.2	15.0
Galena Summit	Big Wood	1/1	NA	14.6
Garfield Ranger Station	Little Wood	12/30	NA	11.2
Giveout	Montpelier	1/1	8.8	11.1
Goat Creek	Salmon Falls	1/1	18.2	20.3
Graham Guard Station	Boise	1/1	11.2	18.1
		12/30	16.9	26.7
Grassy Lake	Upper Snake	1/1	NA	9.9
Gros Ventre Summit	Upper Snake		19.7	21.4
Hemlock Butte	Clearwater	1/1		9.2
Hilts Creek	Little Lost	12/30	NA 21 O	24.5
Howell Canyon	Marsh Creek	1/1	21.9	
Humboldt Gulch	Coeur d'Alene	1/1	4.4	16.0
Hyndman	Big Wood	1/1	6.4	11.6
Indian Creek	Green	1/1	18.6	19.1
Island Park	Henrys Fork	1/1	7.5	14.6
Jackson Peak	Boise	1/1	16.2	22.3
Kelly Ranger Station	Green	1/1	13.2	15.3
Lewis Lake Divide	Upper Snake	1/1	17.0	25.9
Lolo Pass	Lochsa	1/1	10.2	13.1
Lookout	Coeur d'Alene	1/1	NA	18.6
Loomis Park	Green	12/31	9.2	12.1
Lost Lake	Clearwater	1/1	24.0	28.1
Lost-Wood Divide	Big Lost	1/1	11.6	15.6
Magic Mountain	Rock Creek	1/1	20.2	21.9
Meadow Lake	Lemhi	1/1	NA	11.4
Mill Creek Summit	S1amon	12/29	10.1	11.5
Moonshine	Little Lost	1/1	5.4	9.1
Moores Creek Summit	Boise	1/1	21.4	22.8
Moose Creek	North Fork Salmon	12/31	8.3	11.4
Morgan Creek	Salmon	1/1	7.1	10.9
Mosquito Ridge	Coeur d'Alene	1/1	13.1	19.4
Mountain Meadows	Selway	1/1	8.6	13.4
	Owyhee	1/1	NA	13.9
Mud Flat	-	1/1	NA	NA
Oxford Spring	Malad	12/31	14.2	19.1
Phillips Bench	Upper Snake	• •	16.4	13.0
Pole Creek Ranger Station	Salmon Falls	1/1	NA	11.4
Prairie	Boise	12/30		14.8
Salt River Summit	Salt	1/1	9.7	14.2
Savage Pass	Lochsa	1/1	8.9	23.1
Schweitzer Basin	Pend Oreille	12/31	19.2	22.4
Secesh Summit	Payette	1/1	15.2	NA
Shanghi Summit	Clearwater	7 /7	NA O O	13.4
Sheep Mountain	Willow	1/1	9.9	
Sherwin	St. Maries	1/1	5.7	17.8
Slug Creek Divide	Blackfoot	1/1	12.3	16.9
Snider Basin	Green	1/1	8.2	9.2
Somson Ranch	Willow Creek	1/1	10.1	14.0
South Mountain	Jordan-Owyhee	1/1	21.5	NA
Spring Creek Divide	Green	1/1	16.1	17.6
Squaw Flat	Weiser	1/1	8.9	16.8
DYGGW LIGHT		1/1	5.1	6.4

 $[\]overline{1}/$ Data readings as reported by automated Snotel system. $\overline{\rm NA}$ Data not available.

C	М	\cap	Т	F	1/
	18	U	- 1	г	1 -/

Data Site Name	Drainage	Date	Pillow Snow Water Equivalent (inches)	Precipitation Water Year (Accumulative) (inches)
		7 / 7	10.0	
Sunset	Coeur d'Alene	1/1	12.3	18.8
Swede Peak	Little Wood	1/3	9.7	13.8
Togwotee Pass	Upper Snake	1/1	13.6	19.2
Touchet #2	Touchet	1/1	12.3	19.5
Trinity Mountain	Boise	1/1	24.5	26.4
Two Ocean Plateau	Upper Snake	1/1	14.8	17.1
Vienna Mine	Salmon	1/1	NA	20.3
West Branch	Weiser	1/1	11.8	17.3
White Elephant	Henrys Fork	1/1	13.7	21.7
Wildhorse Divide	Portneuf	1/1	NA	17.7
Willow Creek	Greys	1/1	21.8	27.3

GOVERNMENT AGENCIES

States

Idaho Department of Water Resources
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

- U. S. Army Engineers
- U. S. Department of Agriculture Forest Service
- U. S. Department of Commerce NOAA, National Weather Service
- U. S. Department of Interior
 Bureau of Reclamation
 Water Resources Division, Geological Survey
 Shoshone-Bannock Tribal Council

PUBLIC UTILITIES

Washington Water Power Company Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

PRIVATE ORGANIZATIONS

FMC Corporation
Cyprus Mining Company

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

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Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

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